



FIG. 2

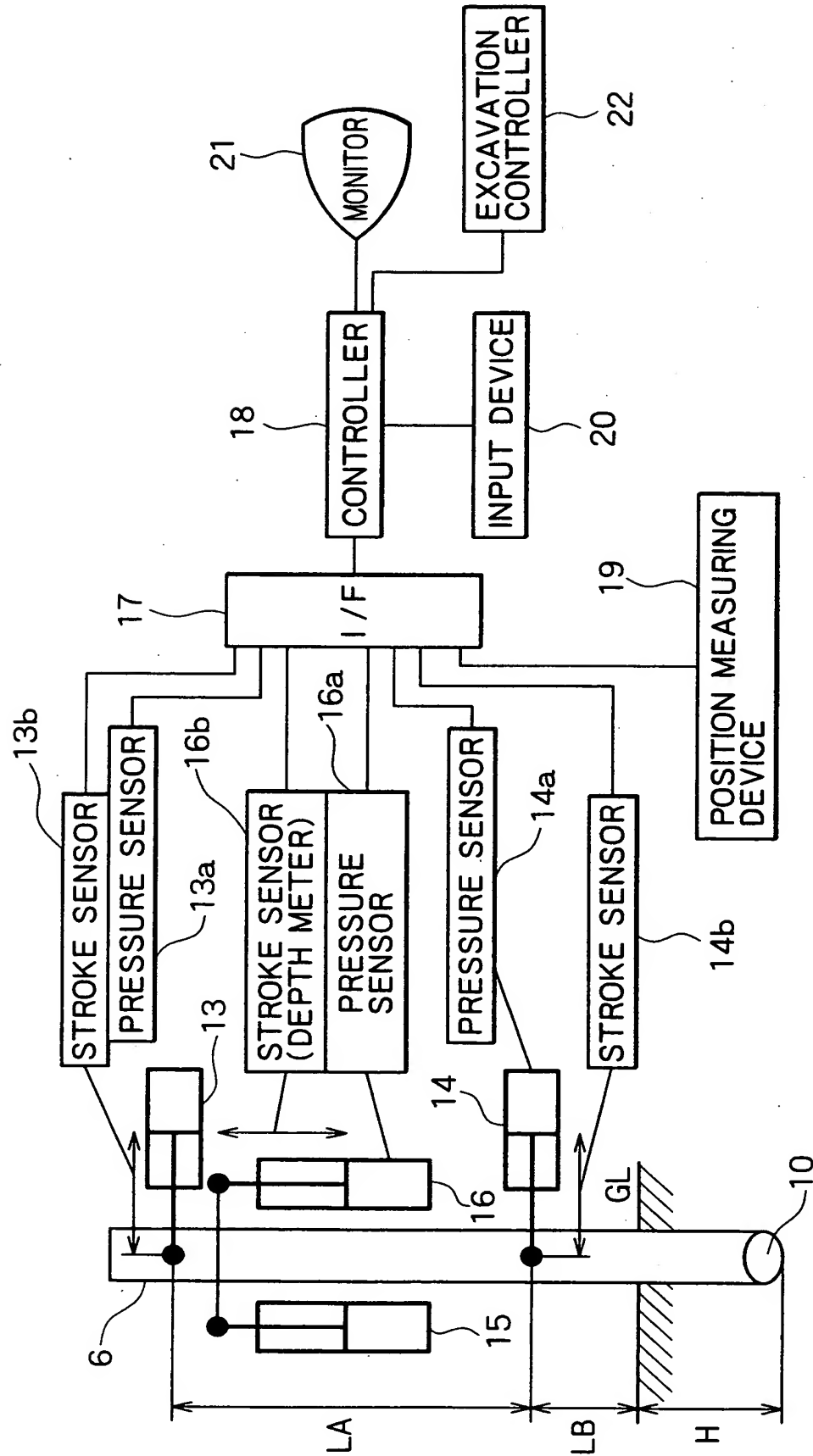




FIG. 3

30

30b

30a

d1

d2

30c

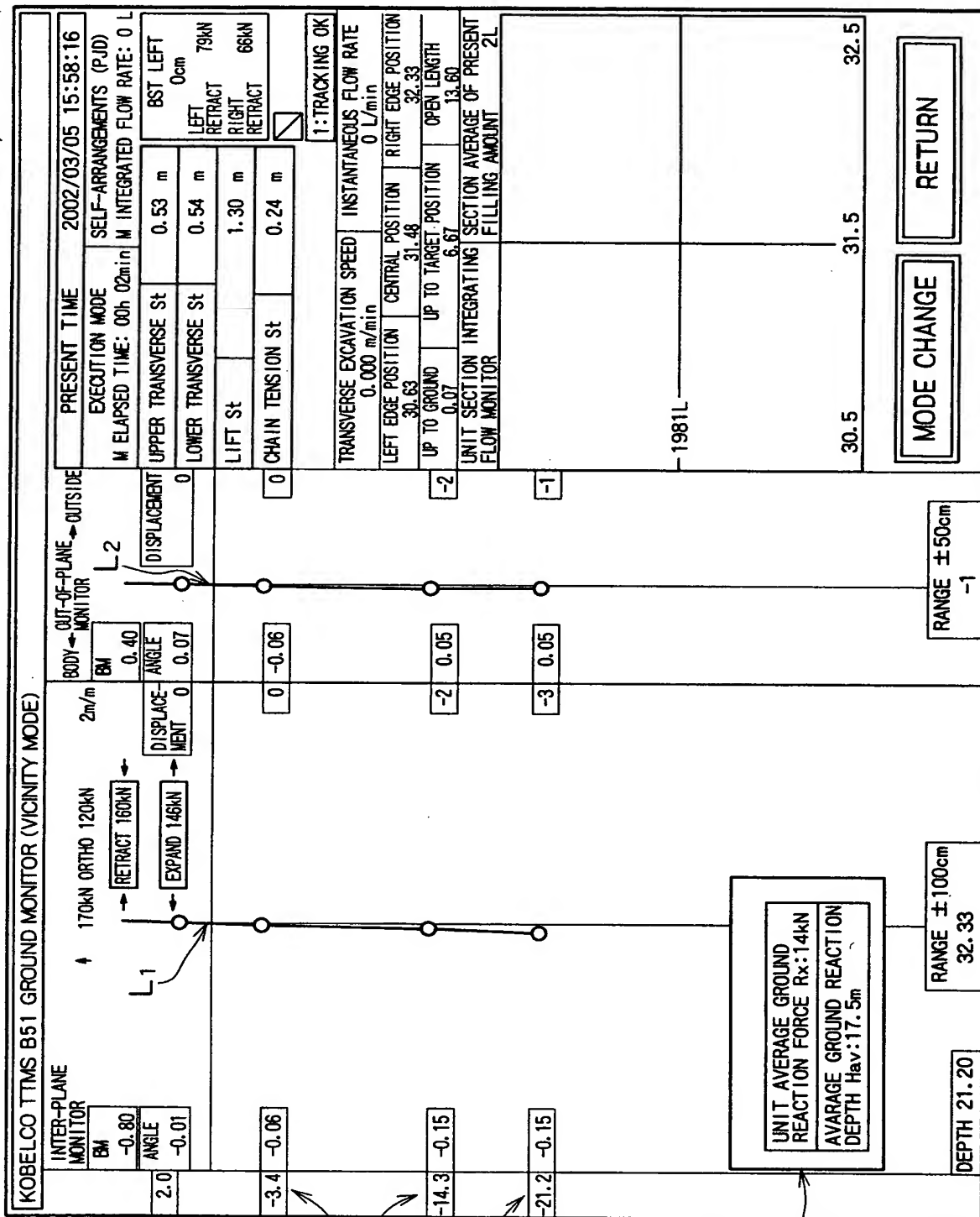




FIG. 4

40

40b

40a

KOBELCO TTMS SELF-PITCHING MONITOR									
WEIGHT OF DRIVE UNIT & POST W 520 kN		INTRA-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0		OUT-OF-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0		2001/06/14 13:58:25 SELF-PENETRATION (PJK) M ELAPSED TIME: 00h 00min BST LEFT 0 mm LEFT RETRACT 0.0t RIGHT RETRACT 0.0t			
SPECIFIC GRAVITY $\gamma$ 1.35 t/m <sup>3</sup>		INTRA-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0		OUT-OF-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0		LIFT st 0.00 m LIFT SPEED 0.000 m/min LIFT LOAD 0.0 t CUTTER SPEED 0 m/min CUTTER LOAD 0.0 t UPPER TRANSVERSE FORCE 0.0 t LOWER TRANSVERSE FORCE 0.0 t UPPER TRANSVERSE st 0.000 m LOWER TRANSVERSE st 0.000 m CHAIN TENSION LOAD 0.0 t CHAIN TENSION st 0.000 m INSTANT FLOW RATE 0.0 L/min INTEGRATED FLOW RATE 0 L			
UNDERGROUND VOLUME 15.0 m <sup>3</sup>		INTRA-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0		OUT-OF-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0		GL CENTRAL POSITION 0.00 m UP TO GROUND END FACE 0.00 m			
BUOYANCY 199 kN		INTRA-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0		OUT-OF-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0		EXECUTION MODE SELECTION			
PENETRATION RESISTANCE 321 kN		INTRA-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0		OUT-OF-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0					
UNIT DEPTH PENETRATION RESISTANCE TIME INTEGRAL VALUE 5420 kNmin/m		INTRA-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0		OUT-OF-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0					
ESTIMATED CONVERSION N VALUE N VALUE 123		INTRA-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0		OUT-OF-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0					
TOTAL PENETRATION RESISTANCE INTEGRAL VALUE 13250 kNmin		INTRA-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0		OUT-OF-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0					
ESTIMATED TRANSVERSE SPEED 0.013 m/min		INTRA-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0		OUT-OF-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0					
		INTRA-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0		OUT-OF-PLANE MONITOR BM 0.00 ANGLE 0.00 DISPLACEMENT 0		DEPTH 36.18			